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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/591,714	09/06/2006	Werner Weppner	2923-775	3140		
640 7590 06/10/2010 ROTHWELL, FIGG, ERNST & MANBECK, P.C. 1425 K STREET, N.W. SUITE 800 WASHINGTON, DC 20005			EXAM	EXAMINER		
			CREPEAU, JONATHAN			
			ART UNIT	PAPER NUMBER		
			1795			
			NOTIFICATION DATE	DELIVERY MODE		
			06/10/2010	FLECTRONIC		

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTO-PAT-Email@rfem.com

## Office Action Summary

Application No.	Applicant(s)		
10/591,714	WEPPNER ET AL.		
Examiner	Art Unit		
Jonathan Crepeau	1795		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

after - If NO - Failu Any	SN. (6) MONTH'S from the mailing date of the communication.  Joint of the right is appelled above, the specified a
Status	
1)🛛	Responsive to communication(s) filed on 12 April 2010.
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposit	ion of Claims
4)⊠	Claim(s) 1-18 is/are pending in the application.
	4a) Of the above claim(s) 1.2.4 and 12-18 is/are withdrawn from consideration.
5)□	Claim(s) is/are allowed.
6)⊠	Claim(s) 3 and 5-11 is/are rejected.
7)	Claim(s) is/are objected to.
8)□	Claim(s) are subject to restriction and/or election requirement.
Applicat	ion Papers
9)[	The specification is objected to by the Examiner.
10)🛛	The drawing(s) filed on <u>06 September 2006</u> is/are: a)⊠ accepted or b) objected to by the Examiner.
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority	under 35 U.S.C. § 119
12)🖾	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a)	
	<ol> <li>Certified copies of the priority documents have been received.</li> </ol>
	2. Certified copies of the priority documents have been received in Application No
	3. Copies of the certified copies of the priority documents have been received in this National Stage
	application from the International Bureau (PCT Rule 17.2(a)).
* :	See the attached detailed Office action for a list of the certified copies not received.
Attachmer	nt(s)
1) Notic	ce of References Cited (PTO-892)  4) Interview Summary (PTO-413)
	ce of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  Paper No(s)/Mail Date  Paper No(s)/Mail Date
	mation Disclosure Statement(s) (PTO/SB06)  5) \[ \] Notice of Informal Patent Application or No(s)Mail Date \( 9/606 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

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### DETAILED ACTION

#### Election/Restrictions

 Applicant's election without traverse of Group III in the reply filed on April 12, 2010 is acknowledged.

#### Information Disclosure Statement

The references cited on the IDS of September 6, 2006 have not been considered because
no copies of the references were found in the file wrapper. However, the Thangadurai et al. 2003
article was cited again on the IDS of March 9, 2007 and has been considered.

#### Claim Suggestions

3. In claims 3 and 7, it is suggested that the phrases "such as e.g." and "preferably" be removed from the claims. In interpreting these claims, the recitations following these phrases have been treated as optional. Appropriate correction is suggested but not required.

### Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
  obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 3, 5, 6, 8, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thangadurai et al (J. Am. Ceram. Soc., 2003).

The reference is directed to a solid ion conductor comprising a garnet-like crystal structure and having a composition of  $Li_3La_3Nb_2O_{12}$  or  $Li_5La_3Ta_2O_{12}$ . Thus, in correspondence to the instant claims, "L" is Li, "A" or "G" is La, and "M" is Nb or Ta.

The reference does not expressly teach that the Li has a subscript of "5+x", where x is greater than 0 and less than or equal to 2, as recited in claim 3.

However, the invention as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made because a *prima facie* case of obviousness exists where the claimed ranges and prior art ranges do not overlap but are close enough that one skilled in the art would have expected them to have the same properties. *Titanium Metals Corp. of America v. Banner*, 778 F.2d 775, 227 USPQ 773 (Fed. Cir. 1985). In this case one skilled in the art would expect a composition comprising e.g., Li<sub>5.01</sub>La<sub>3</sub>Nb<sub>2</sub>O<sub>12</sub> pursuant to the instant claims to have similar properties to the disclosed Li<sub>5</sub>La<sub>3</sub>Nb<sub>2</sub>O<sub>12</sub>. Additionally, it is submitted that the compound would inherently be stable towards elemental lithium at lithium activities corresponding to a voltage of 5 V, as recited in claim 11.

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### Allowable Subject Matter

6. Claims 7, 9, and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter:

Claim 7 recites that "A" is selected from divalent cations, while claims 9 and 10 recite that "A" is selected from Ca, Sr, and/or Ba. Thangadurai et al., the closest prior art, does not teach or fairly suggest these compositions.

#### Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Crepeau whose telephone number is (571) 272-1299.
 The examiner can normally be reached Monday-Friday from 9:30 AM - 6:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Basia Ridley, can be reached at (571) 272-1453. The phone number for the organization where this application or proceeding is assigned is (571) 272-1700. Documents may be faxed to the central fax server at (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Jonathan Crepeau/ Primary Examiner, Art Unit 1795 June 9, 2010